

1/5

FIG. 1

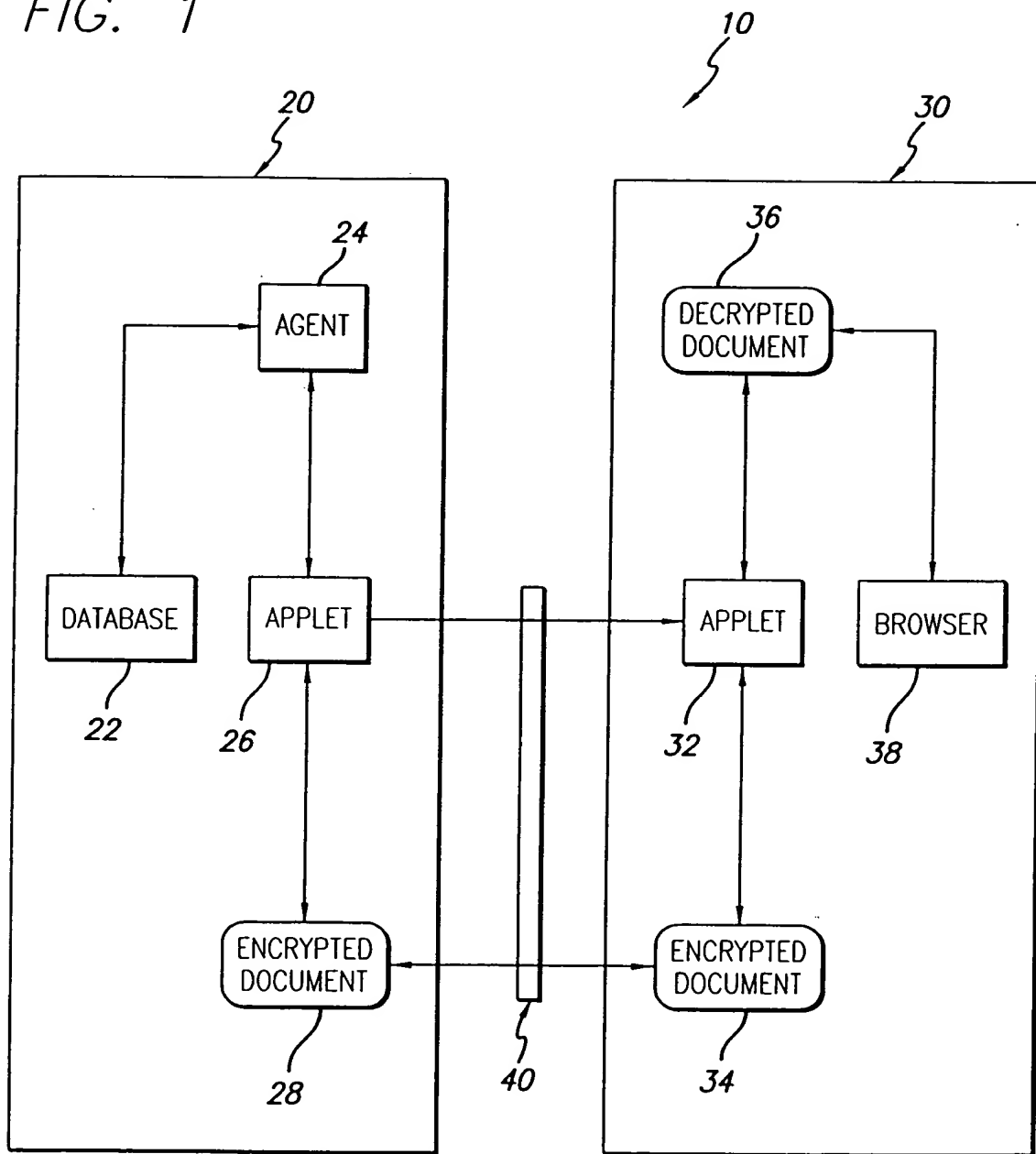


FIG. 2(a)

2/5

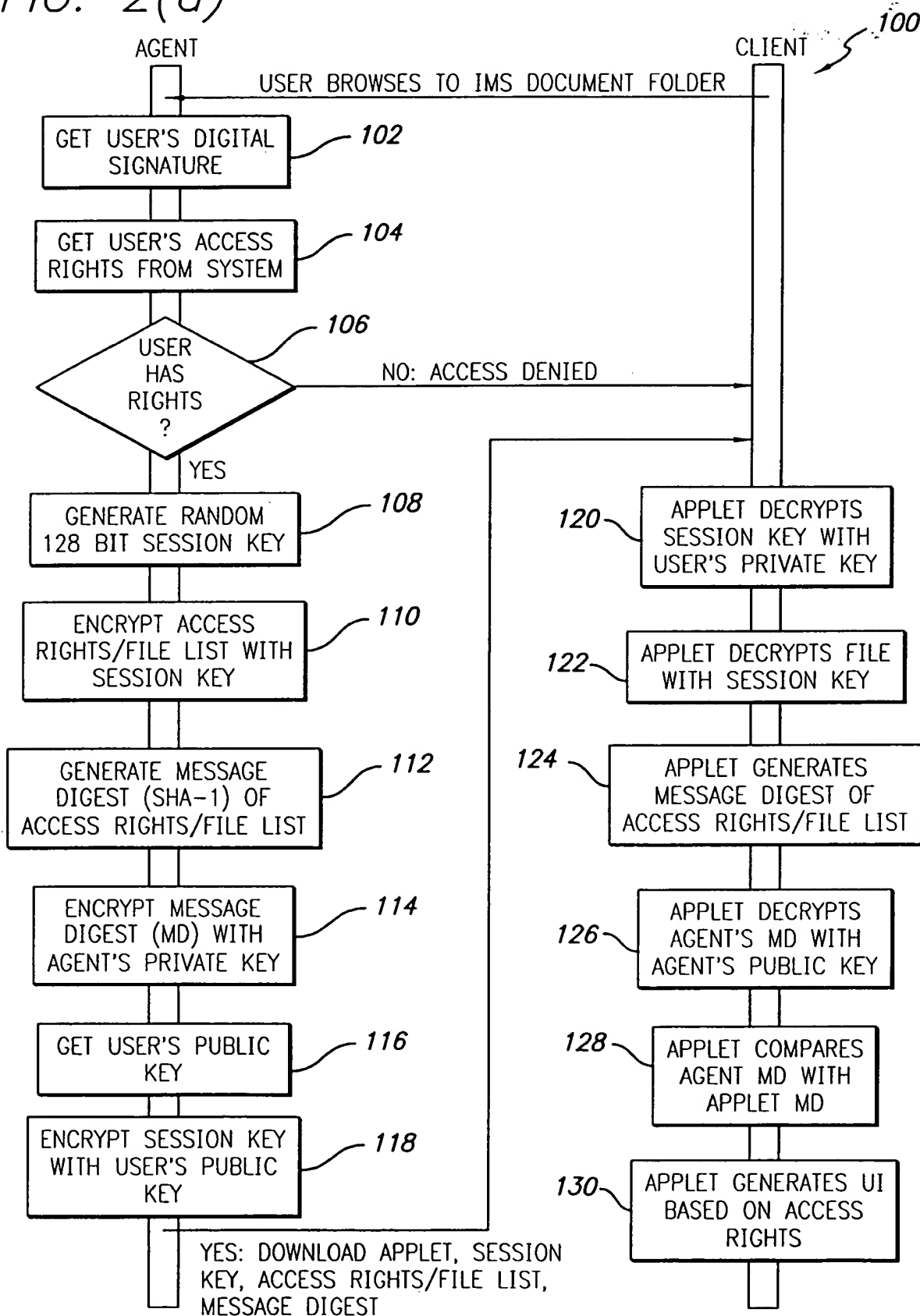
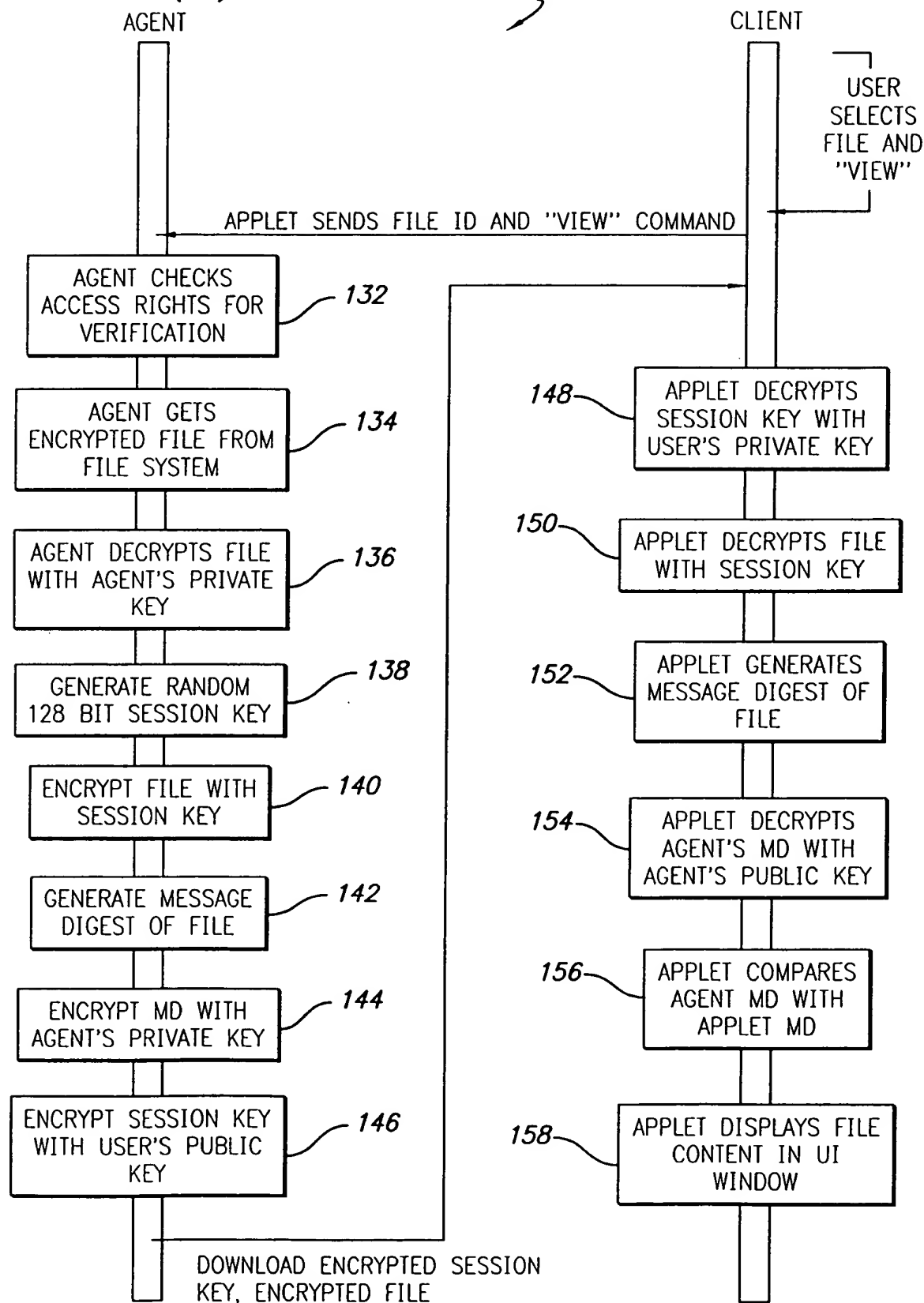


FIG. 2(b)

3/5

100



AGENT

FIG. 2(c)

4/5

100

CLIENT

USER  
SELECTS  
"MODIFY"

USER  
MODIFIES  
FILE

CLIENT

USER SELECTS  
"SUBMIT  
CHANGES"

100

160 APPLET ADDS TAGS FOR  
USER'S CHANGES

162 GENERATE RANDOM  
128 BIT SESSION KEY

164 ENCRYPT FILE WITH  
SESSION KEY

166 GENERATE MESSAGE  
DIGEST OF FILE

168 ENCRYPT MD WITH  
APPLET'S PRIVATE KEY

170 ENCRYPT SESSION KEY  
WITH USER'S PRIVATE  
KEY

AGENT

FIG. 2(d)

APPLET SENDS ENCRYPTED FILE,  
SESSION KEY AND MESSAGE DIGEST

172 AGENT DECRYPTS  
SESSION KEY WITH  
USER'S PUBLIC KEY

174 AGENT DECRYPTS FILE  
WITH SESSION KEY

176 AGENT GENERATES  
MESSAGE DIGEST OF  
FILE

178 AGENT DECRYPTS  
APPLET'S MD WITH  
APPLET'S PUBLIC KEY

180 AGENT COMPARES  
AGENT MD WITH  
APPLET MD

182 AGENT ADDS TAGS FOR  
USER, SUBMISSION  
TIME AND DATE

184 AGENT ENCRYPTS FILE  
WITH AGENT'S PUBLIC  
KEY

186 AGENT WRITES  
ENCRYPTED FILE TO FILE  
SYSTEM

AGENT

5/5

100

CLIENT

USER SELECTS  
"VIEW  
HISTORY"

188

APPLET DISPLAYS  
DOCUMENT HISTORY IN  
UI WINDOW

FIG. 2(e)